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CERASIMONA, P.I.

USSR/Nuclear Physics - Elementary Particles.

C-3

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 8641

Author

: Varfolomeyev, A.A., Garasimova, R.I., Zamchalova, Ye.A.,

Podgoretskiy, M.I., Shcherbakova, M.N.

Inst

: Academy of Sciences, USSR.

Title

: Energy Spectrum of Negative Pions, Formed by Cosmic Rays

in a Photo Emulsion.

Orig Pub

: Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1164-1166.

Abstract

The authors give the energy spectra obtained for 195 positive and 328 negative pions, generated in the R-5 emulsion (emulsions 330 and 450 mecrons thick, 10 cm in diameter), exposed to cosmic rays in the stratosphere. Corrections are made to the obtained data to take into account the finite dimensions of the emulsion blocks. The author believes ti possible that in the negative pion spectrum, in the range of 10 -- 30 MeV, there is a small maximum which in their opinion can be interpreted as the decay of

Card 1/2

USSR/Nuclear Physics - Elementary Particles.

C-3

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 8641

particles, absorbed by the same nucleus. The shift in the position of the maximum can be explained by the fact that the Λ^{-0} particle may turn out to be a lower energy level than the least bound neutron, and also by the slowing down of the negative pion in the Coulomb field of the nucleus.

Card 2/2

GERASIMOVA, R.L.

USSR/Nuclear Physics - Elementary Particles.

C-3

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, 8634

Author

: Varfolomeyev, A.A., Gerasimova, R.I.

Inst

: Academy of Sciences, USSR.

Title

: Disintegration of Beryllium and Carbon Nuclei as a

Result of To -Meson Capture.

Orig Pub

: Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1166-1167.

Abstract

: Seven cases were observed of the absorption of π -mesons in microcrystals of beryllium and 12 cases of absorption in microcrystals of carbon, introduced into the photographic emulsion. The characteristic feature of the above 5 - stars is the absence of tritons with energies greater than 10 Mev, and the fact that the mean energy of the emitted protons does not exceed 10 Mev. In the author's opinion, the above data are evidence that in the primary act a greater portion of the rest energy of the m-meson is received by 1 -- 2 neutrons which do not experience secondary collisions in such light nuclei, as beryllium and carbon.

Card 1/1

GERASIMOVA, P.I.

CARD 1 / 2

PA - 1668

SUBJECT AUTHOR

BARFOLOMEEV, A.A., GERASIMOVA, R.I., KARPOVA, L.A.

TITLE PERIODICAL A Possible Example for the Anomalous Decay of a Hyperfragment. Dokl. Akad. Nauk, 110, fasc. 5, 758-760 (1956)

Issued: 12 / 1956

A packet of 56 emulsion layers of 330 & thickness each, which was irradiated in the stratosphere, was used for the purpose of studying unstable particles. One of the secondary stars found was ascribed to an unstable fragment decaying with an abnormally low emission of energy. The primary star was of the type 18 + 4n and it emitted a particled which decayed after passing through 39 that and emitting two charged particles b and c. Both came to a standstill in the emulsion after 15,5 mm and 4,5% respectively. The traces of a, b and c were complanar up to 2° . The charge of the particle a was $z_a \le 3$ and probably even $z_a <$ 3. However, at least the mass of the particle a was probably larger than that of the proton. The trace of b originated from a negative pion which had come to a stop in the emulsion. Taking account of a possible straggling its energy is assumed to be 29,4 + 1,2 MeV. In the case investigated here it is imenergy is assumed to be 27,4 T 1,2 mev. in the case investigated next so the possible that a 2 -hyperon is concerned. It follows from the shortness of the trace that spallation may be caused by the capture of a Z-hyperon by a light nucleus of the type C,N,O, but not by a heavy nucleus like Ag and Br. The process investigated is apparently the decay of an instable fragment associated to a Λ^0 -particle. No decay scheme with the creation of two particles

Dokl.Akad.Nauk, 110, fasc. 5, 758-760 (1956) CARD 2 / 2 PA - 1668

agrees with the experimental results. Among the analyzed schemes with creation of three particles the following come into question:

$$\Lambda^{\text{H}^3} \to \pi^- + \text{He}^3 + \gamma^- + Q_1 + Q_1 = 50 \pm 8 \text{ MeV}, B_{\Lambda} = -7,5 \pm 9 \text{ MeV}.$$

$$\Lambda^{\text{H}^4} \rightarrow \pi^- + \text{He}^4 + \gamma + Q_2 + Q_2 = 51 \pm 9,5 \text{ MeV}, B_{\Lambda} = -6 \pm 10 \text{ MeV}.$$

$$\Lambda^{\text{He}7} \rightarrow \pi^- + \text{Li}^6 + n + Q_3; \quad Q_3 = 35,5 \pm 2,2 \text{ MeV}, \quad B_{\Lambda} = 4,2 \pm 2,4 \text{ MeV}.$$

At present about 100 acts of decay of hyperfragments are known. If the schemes (1) or (2) are recognized as valid the case investigated here might correspond to a relative probability of the radiation decay of the hyperfragment of $\sim 1\%$. Apparently the creation mechanism of the \int -quantum can, in the case under investigation, be the same as on the occasion of the anomalous π - μ -decay with a short range of the emitted myons and as in the case of the radiation decay of a r-meson with the decay scheme $\tau \to 3\pi + \int$ (this is the case all the more as, according to T.EGUCHI, Phys.Rev.85,943 (1952), and other works, the probability of the radiation decay of the fragment and also the probability of the reactions $\pi \to \mu + e + f$, $\tau \to 2\pi + f$ and $K \to \mu + f + f$ are near 1%). Of the remaining rays of the primary ray 20 traces belong to stable particles and 2 traces do not end in the emulsion packet.

INSTITUTION:

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514820008-3

GERASZ MOVH, R.I.

56-5-5/55

AUTHOR TITLE

VARFOLOMEYEV, A.A., GERASIMOVA, R.I., TUMANYAN, V.A. Multiple Flectron Production in a High Energy Electron-Photon Shower (Mnozhestvennow obrazovaniye slektronov v elektronno-fotomnom livne ballshoy

PERIODICAL

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr5, pp969 - 973

(U.S.S.R.)

ABSTRACT

In connection with the systematic investigation of electron-photon showers occuring in the nuclear emulsion layers in the stratosphere an unusual formation of showers was recorded. A 150 - layer plate of the emulsion "P" was used as photoplate. The thickness of a layer was about 400 and the plates had a diameer of 10 cm.

Exposure was carried out for about 10 hours in an altitude of about 20 -2h km. The density of orbital traces in the emulsion was 37 grains per 100 /a in the case of a minimum of ionozation.

The unusual shower was caused by single electrons the path of which in the individual layers of the emulsion was~0,5 cm,

21 secondary electron-positron pairs were found, of which 12 had an energy of~10° eV.

An exact analysis of these traces allows the conclusion that the primary electrons causing the effect had an energy of from 0,6 to 2,1018 eV.

Card 1/2

56-5-5/55

Multiple Electron Production in a High Energy Electron-Photon Shower

As a particular feature when analyzing the traces it was found that 6 electron-positron pairs always in couples occured and must therefore also have been formed simultaneously.

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ASSOCIATION

Not given

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Card 2/2

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GERASIWOVA, R.I.

"ELECTRON_PHOTON CASCADES WITH ENERGIES FROM 1011 TO 16-13 ev IN NUCLEAR

R.I. Gerasimova, A.A. Varfolomeyev, I.I. Gurevich, L.A. Makaryina, A.S. Komantseva, S.A. Chuyeva

Fifteen electron-photon cascades with energies from 10^{11} to 10^{13} ev. recorded in six emulsion stacks with a total volume of lo 1, have been investigated.

A TO SECTION OF THE PROPERTY O

The energies of the primary photons evoking the cascades were determined by the energy spectrum of the cascade electrons at a depth of 2.5 ÷ 3to (to - rad. unit).

The grain density and the gap density were measured for the first pairs. In all the pairs with energies 3x1011 ev. a decrease in grain density at the apes caused by the screening effect was discovered.

The following experimental relation of the ionization losses of pair (1) was

obtained:

where Ipe is the specific ionization electron loss at the ionication plateau, x is the distance from the apes of the pair in cm, and E, is the energy of the photon which produced the pair.

The expression obtained for I/21pe may be used to determine the E energy from experimental values for I. An estimation of the E error is given, taking into consideration the screening effect.

The number of electron-positron prims produced at depths of 1.0to and 1.5to was measured.

REQUIRE FOR THE PROPERTY OF TH

GERASIMOVA, R.T. (CONTINUED)

The results agree with the calculated data obtained by the Monte Carlo method, taking into account the effect of the medium on Bremsstrahlung (Landau-Pomeranchik and Ter-Mikaelyan effects).

For 10 cascades with e 1.8x10 11 ev, the probability of P () 2 from the criterion / 2, is 2.5 + 5% when compared with the curves which do not consider the effect of the mdeium, and 80-95% when compared with the calculations that take into consideration the effect of the medium on the Bremsstrahlung.

report presented at the International Cosmic Ray Conference, Moscow 6-11 July 1959

GRRASIMOVA, R.I.

"DIRECT PRODUCTION OF ELECTRON_POSITRON PAIRS BY HIGH ENERGY ELECTRONS"
R.I.Gerasimova, L.A. Makaryina, Ap.P. Mishakova, A.S. Romantseva, G.S. Stolyarova, V.A. Turanyan, S.A. Chyueva, A.A. Varfolomeyev,

The cross-section of direct production of electron-positron pairs by high energy electrons was measured experimentally. For this rurpose, a study was made of isolated electron-photon cascades and the photon component of high energy nuclear interactions in emulsion stacks exposed to radiation in the stratosphere. In order to exclude spurious cases of direct pair production, which constitute t e main difficulty in experimental measurement of the cross-section of such pairs, the calculation was carried out by the Monte Carlo method.

The calculation was made for three values of primary electron energy: 10; 100 and 1,000 Bev, taking into consideration two possible variants of the Eremsstrahlung spectrum: Bethe-Heitler and Migdal variants (Laundau-Pomeranchuk and Ter-Mikaelyan effects). A method for determining the energy of ultra-relativistic electrons from the lateral distribution of the apexes of electron-positron pairs is suggested.

During the experimental measurement of very high electron energies, certain possible sources of underestimation were eliminated.

The cross section of direct pair production by high energy electrons was found to be in agreement with Bhahha's calculation within the limits of experimental error.

report presented at the International Cosmic Ray Conference, Moscow 6-11 July 1959

31541 S/627/60/002/000/024/027 D299/D304

3.24/0 (2205, 2705, 2805)

AUTHORS:

Varfolomeyev, A. A., <u>Gerasimova</u>, R. I., Gurevich, I.I., Makar'ina, L.A., Romantseva, A. S., and Chuyeva, S. A.

Electron-photon showers with energies of 11 11 - 10 13 ev. TITLE:

TO SECTION OF A LOCAL PROPERTY OF A LOCAL PROP

in nuclear emulsions

International Conference on Cosmic Radiation. Moscow, SOURCE:

1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kas-

kadnyye protsessy, 299-306

TEXT: A detailed investigation was carried out of 15 electron-pho ton showers with energies > 10¹¹ ev., at low depths. In contradistinction to other works, the results are compared with those obtained for cascades by the Monte Carlo method. Six emulsion stacks were used, with total volume of about 10 liters. In 5 of the stacks of emulsion $P-HUK\phi M$ (R-NIKFI), the grain density of relativistic electrons was 30 - 35 grains per 100 μ . The energy E γ of primary quanta which generate the shower, was determined from the

Card 1/4

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Electron-photon showers ...

number of cascade electrons of energy higher than $\mathcal{E}_{\rm c}=300$ Mev, at a depth of 2.5 - 3.0 t_o. A table lists (for comparison) the values of E_f, obtained by the Monte Carlo method and by formula

f

$$R = \frac{1}{16,1} \left\{ 45,0 + \ln \left[\left(\frac{2x}{E} \right)^2 (1 + 140 x) \right] \right\}$$
 (1)

where x is the distance from the pair vertex in cm; this formula is semiempirical and represents the ratio of ionization losses of pairs to those of relativistic electrons; the ionization losses are due to mutual shielding of electron and positron fields. In the experiments, particular care was taken to detect the vertices of the electron-positron pairs, formed at depths 1.5 to After determin-

ing the lateral shower distribution, the energy of the electrons of the pairs was measured by means of multiple scattering (to an accu-

Card 2/4

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31541 S/627/60/002/000/024/027 D299/D304

Electron-photon showers ...

racy of 20 - 30%) for energies of up to (5-7)·108 ev. The total number of pairs formed at depths $\leq 1.0 t_0$ and $\leq 1.5 t_0$ with energies higher than (1-2) Mev, is plotted in two figures, from which it is evident that the experimental points fit better the curve which takes into consideration the influence of the medium on the bremsstrahlung (the curve obtained by Migdal's formula); the curve obtained by Bethe-Heitler's formula does not fit the experimental results. The figures also show that not one of the 15 showers under consideration is anomalous. Apparently, the majority of so-called "anomalous" showers, described in literature, can be explained by statistical fluctuations in the cascades or by improper determination of the energy of primary electron-positron pairs. Another figure exhibits the experimental curves of longitudinal shower development; here, too, no appreciable deviations from the corresponding theoretical curves are observed. A table lists data on the number of pairs formed at small distances r $< 0.5 \mu$ from the nearest electron track; these data might be useful in analyzing the crosssection for pair formation by high-energy electrons. There are 4

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Electron-photon showers ...

315h1 5/627/60/002/000/024/027 D299/D304

figures, 3 tables and 21 references: 10 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: K. Pinkau. Nuovo Cim., 3, 1285, 1956; H. Fay. Nuovo Cim., 5, 293, 1957; J. Iwadare. Phil. Mag., 3, 680, 1958; S. K. Srnivasan, J. S. Butcher, B. A. Chartres, H. Messel. Nuovo Cim., 9, 77, 1958.

Card 4/4

21(8)

sov/56-36-3-0/71

AUTHORS:

Varfolomeyev, A. A., Gerasimova, R. I., Makartina, L. A.,

Romantseva, A. S., Chuyeva, S. A.

TITLE:

Ionization Along the Tracks of Electron-Positron Pairs of

High Energy (Ionizatsiya vdol' sledov elektronno-pozitronnykh

par vysokoy energii)

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 707-716 (USSR)

ABSTRACT:

In the introduction the authors discuss the problem and the results of several already published works dealing with this subject. Table 1 contains for the 5 investigated showers (E-53, 0-202, D-84, D-44 and I-109) the data of the emulsion piles in which they were recorded (see previous paper by the

same authors, reference 7); table 2 contains a list of the E, -values according to Janossy (Yanoshi) (Refs 10, 12) and

according to Chudakov (Ref 1). (Today it is possible to obtain more exact E,-values from curves by the Monte Carlo method by taking the influence exercised by matter on bremsstrahlung into account. The publication of respective results has been announced). A very detailed chapter of this paper

Card 1/3

deals with gauging of the emulsions (type R-NIKFI). The follow-

SOV/56-36-3-9/71 Ionization Along the Tracks of Electron-Positron Pairs of High Energy

ing experimental data concern the track densities of five high-energy electron-positron pairs in these emulsions. Measurements were carried out on the first pairs of electron-photon showers. Pair energy was determined from the energy spectrum of the cascade electrons at a distance of 2.5 - 3 radiation lengths from the vertex of the first pair. In three cases pair energy was nearly .10¹²ev and in two cases it was approximately 3.1011 ev. Track density was determined by two methods: from the grain density in the track and from the gap length distribution coefficient. Compared with a particle for which the specific energy loss is twice as great as the ionization loss of the electron, the track density of the pair near the vertex was found to be smaller. This decrease of the pair track density can be explained by the mutual screening of the electron and positron during ionization. The results obtained are compared with the theoretical ionization curves for pairs calculated by A. Ye. Chudakov (Ref 1). The authors finally thank Professor I. I. Gurevich for his interest and discussions, A. A. Kondrashina for his help in

Card 2/3

507/56-36-3-9/71

Ionization Along the Tracks of Electron-Positron Pairs of High Energy

evaluating measuring results, and D. M. Samoylovich and his group for developing the piles of emulsion plates. There are 8 figures, 2 tables, and 21 references, 3 of which are Soviet.

SUBMITTED: August 18, 1958

Card 3/3

GERASINOVA, R. I.

Advantages of chemical weed control. Zashch. rast. ot vred. i bol. 5 no.4:15-16 Ap '60. (MIRA 13:9)

1. Agronom po sashchite rasteniy Rayonnoy traktornoy stantsii.
(Herbicides)

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VARFOLOMEYEV, ALA: GERASIMOVA, R.I.; GUREVICH, I.I.; MAKAR'INA, L.A.; ROMANTSEVA, A.S.; CHUYEVA, S.A.

Effect of the density of the medium on bremsstrahlung in electronphoton showers involving energies from 10¹¹ to 10¹³ ev. Chur.
eksp. i. teor. fiz. 38 no.1:33-45 Jan '60. (MIRA 14:9)
(Bremsstrahlung) (Cosmic rays)

APANASENKO, A.D., starshiy nauchnyy sotrudnik; GUMELYA, A.N.; YOLNOVA, N.P., mladshiy nauchnyy sotrudnik; GERASIMOV, N.N., mladshiy nauchnyy sotrudnik; GERASIMOVA, R.V., mladshiy nauchnyy sotrudnik [deceased]; MARTTHOV, G.K., starshiy tekhnik; FILIPPOVA, T.V., starshiy tekhnik; SUCHKOVA, Z.Ye., starshiy tekhnik. Prinimal uchastiye AKUL'SHIN, P.K., doktor tekhn.nauk, doktor tekhn.nauk, SYERDLOVA, I.S., red.; SHEFER, G.I., tekhn.red.

[Rules for the intersection of telephone lines in overhead telephone communication networks] Instruktsiis po skreshchivaniiu telefonnykh tsepei vozdushnykh linii sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1959. 270 p.

(MIRA 13:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye mezhdugorodnoy telefonno-telegrafnoy svyazi. 2. TSentral'nyy nauchno-issledo-vatel'skiy institut svyazi Ministerstva svyazi SSSR (for Apanasenko, Volnova, Gerasimova, Gerasimova, Kon'kov, Martynov, Filippova, Suchkova). 3. Nachal'nik laboratorii vozdushnykh liniy svyazi TSentral'nogo nauchno-issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for Gumelya).

(Telephone) (Electric lines--Overhead)

STEPANOV, Io.M.; ANDREYNV, M.W.; OSHAROVA, Yo.A.; GERASIMOVA, S.A.; ANTUSHKVA, R.I.; TUROVA, R.I.

Effect of different feeding levels on the physiological condition of the organism of sheep. Trudy FIEV 26:190-192 *62.

(MIRA 16:2)

1. Laboratoriya fiziologii Vsesoyuznogo instituta eksperimental'noy veterinarii.

(Sheep—Feeding and feeds)

an arman <mark>tara ka ang kangunaran ang kalangan ka at italika ka ka at italika ka ka at italika ka ka ka ka ka ka</mark>

"A Certain Case of Solution of Convection Problem with Account of Ratio of Viscosity Coefficient to Temperature"
Uch. Zap Molotovsk. un-ta, 8, No 3, 1954, 87-90

Equations of convection are solved taking into account the viscosity in the case of an infinite vertical slit with plane parallel walls heated to different temperatures. Exact stationary solutions are found in two cases in which the ratio of viscosity to temperature is linear and may be expressed by Bachinskiy's formula. The temperature distribution in this case is linear and the heat transferform hot to cold wall is determined by the molecular heat conductivity of the liquid. (RZhFiz, No 9, 1955)

SO: Sum-No 787, 12 Jan 56

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514820008-3"

GENASIMOVA, S. B.

GERASIMOVA, S. B. -- "On the Theory of Convection Phenomena in Binary Mixtures." Min Higher Education USSR. Molotov State U imeni V. M. Gor'kiy. Molotov, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences.)

AND EXPLOSED BEING AND THE PROPERTY OF THE PRO

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

36605 \$/170/62/005/007/006/010 B104/B112

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NUTHOR:

Gerasimova, S. B.

TIPLE:

The effect of thermal diffusion on the thermal convection of a binary mixture

PERTODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 5, no. 7, 1362, 52-58

TEXT: The steady thermal convection of a binary mixture in a vertical cavity was investigated, allowing for the effect of thermal diffusion and making the following assumptions: (1) The velocity, temperature, pressure, and concentration of the mixture are independent of y; pressure, and concentration of the mixture are independent of y; (2) the velocity of the fluid has only a z-component; (3) the temperature of the mixture depends only on the transverse coordinate x of the cavity. A purely mathematical analysis of the system of equations

$$-\frac{1}{\rho_0}\frac{dp}{dz}+v\frac{d^2v}{dx^2}+g(\beta T+\alpha c)=0, \qquad (1)$$

$$\frac{d^3T}{dx^3} = 0, (2)$$

Card 1/2

S/170/62/005/007/006/010 B104/B112

The effect of thermal diffusion ...

$$v\frac{\partial c}{\partial z} = D\left(\frac{\partial^3 c}{\partial z^2} + \frac{\partial^3 c}{\partial z^3}\right). \tag{3}$$

shows that the non-uniformities in concentration can be represented by c(x,z) = Bz + c'(x). Thus, Eqs. (1)-(3) can be reduced to a system of ordinary linear differential equations. The distribution of concentration is given by

 $c_1 = \frac{DK_1^2}{\chi C} z - C \left[\frac{K_1^2}{24} \left(\frac{x^3}{5} - \frac{x^4}{2} + \frac{x^3}{3} \right) + \frac{\alpha \lambda}{\beta K_1^2} x \right] + c_0. \tag{18}$

where K_1 is Rayleigh's diffusion number and c_0 denotes a standard

concentration. The great effect of thermal diffusion on thermal convection is demonstrated by a comparison of Eq. (18) with a formula for the distribution of concentration derived without allowing for the effect of thermal diffusion. There are 2 figures.

ASSOCIATION: Politekhnicheskiy institut, g. Perm' (Polytechnic Institute, Perm')

SUBMITTED: February 22, 1962

Card 2/2

LYANDE, V.S.; GLUBOKOVA, P.D.; MIROSHNIKOVA, Ye.Z.; GERASIMOVA, S.S.; USOL'TSEV, V.N.

State of the upper respiratory tract and the organ of hearing in singers and voice students in Khabarovsk. Trudy Khab.med.inst. no.20:147-155 '60. (MIRA 15:10)

1. Iz kliniki bolezney ukha, goral i nosa (zav. prof. V.S.Lyande) Khabarovskogo meditsinskogo instituta. (KHABAROVSK--SINGERS--DISEASES AND HYGIENE) (RESPIRATORY ORGANS) (EAR)

NIKITINA, O.1.; Prinjumin in a specimen during the specimen analysis of iron alloys. Shor.trud. UNIIN no.11:209.216 (MIRA 18:11)

JLUBOKOVA, P.D., dotsent; MIROSHNIKOVA, Ye. &., kand.med.nauk; ROKHLIN, N.N., vrach; GERASINOVA, S.C.

Professor Vol'f Samollovich Liande, 1893 - ; on his 70th birthday. Vest. otorin. 25 no.5:105 S-0 '63. (MIRA 17:4)

1. Zaveduvushchaya otorinolaringologicheskim otdeleniyem Khabarovskogo meditsinskogo instituta (for Jerasimova).

BOGOYAVENSKIY, A.F.; GERASINOVA, T.A.

gandhamalat benezitah terpitah de erangman elektrika i

Catalytic activness of the oxide Al₂0₃ formed on the anode. Zhur.prikl.khim. 26 no.11:1122-1126 H ¹53. (MLEA 6:11)

1. Laboratoriya neorganicheskoy khimii Kasanskogo Gosudarstvennogo universiteta im. V.I.Ul'yanova-Lenina. (Alumina) (Catalysts)

GERASIMEVA, T. D.

"Ecology of the Elder of the Murmansk Shore and Methods of Rationalizing Elder Husbandry." Sub 5 Nov 51, Moscow City Pedagogical Inst imeni V. P. Potemkin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514820008-3"

ajadda asa sajaga a jaga sa ara miranannerin nakannunin nundun muhamban nunga sajat satihissa nakan m

GERASIMOVA, T.D.; SKCKOVA, N.N.

Ornithogeographical characteristics of Aynov Islands.

Ornitologiia no.2:91-98 '59. (MIRA 14:7)

(Bol'shoy Aynov Island--Birds) (Malyy Aynov Island--Birds)

- GARAN	MOVA, T.D.
	State of bird colonies of the Marman Coast. Ornitologiia no.4:11-14.
	(MIRA 16:4) (Murman Coast—Birds)

BELAY, G.Ye.; GERASIMOVA, T.I.; YATSENKO, A.I.

Kinetics of the graphitization of cerium cast iron. Lit.proizv.
no.7:22-23 J1 *64.

(MIRA 18:4)

TARAN, Yu.N. (Dmepropetrovsk); IEV, I.Te. (Emegrapetrovsk); YATSENKO, A.I. (Dmepropetrovsk); BELAY, G.Ye. (Dmepropetrovsk); Prinimali uchastiye; GERASIMOVA, T.I., Inzh.; KURASOV, A.N.

Specific features of the eutectic crystallization of cast iron innoculated with cerium. Izv. AN SSSR. Met. no.3;131-139 My-Je '65. (MIRA 18:7)

FRIDKIN, V.M.; DELOVA, A.I.; OFRASIMOVA, T.W.; BILVALFIDINOV, Kh.S.

Some results of the study of electronic photography and electrostatic printing, Zhur.nauch.i prikl.fot.i kin. 2 no.4:286-292

Jl-Ag '57. (MIRA 10:7)

1. Wauchno-issledovatel'skiy institut poligraficheskogo mashinostroyeniya. (Xerography)

AUTHOR PRIDKING V.M., OERASIMOVA, I.N.,

TITLE

Electric Photography on Daminephones.

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i in IODICad

(mlektrofotografiya na lyuminoforakh - Russian)

Doklady Akademii Nauk 335H, 1957, Vol 113, Nr 3, pp 571-572, (U.S.S.H.)

Received 6/1957

Reviewed 7/1957

ABSTRACT

Experiments were carried out in order to obtain images on the surface of paper or metals which were coated with a laminescent layer which, at the same time, was photoconductive. The following material was used, [Cdb, Znb]Cu, which has its maximum photoconductivity at) = 340 m, and [Cdb, Znb] Ag, which has its maximum photoconductivity at he ill m. The surface of the layer could be charged in the dark by means of the corona discharge. The image on the surface of the layer was obtained by projecting an image on to the surface of the luminescent substance charged in this manner by means of a photoenlarging apparatus. The time of exposure corresponded to the relaxation period of the surface charge which had been previously measured for the respective layer. Developing was carried out by spraying the layer with inversely charged colored resin particles. The particles were charged by means of friction electricity. An additional peculiarity of electrophotography was the possibility of watching the luminescent substances in the dark while they were illuminated by ultraviolet light (with 365 m /m wavelength). Good results were also obtained with other photoconductive layers, as e.g. ZnO and CdS.

Card 1/2

Electric Photography on Luminophores.

PA - 3146

ASSOCIATION Scientific Research Institute for Graphical Machine Building PRESENTED BY SHUBNIKOV A.V., Member of the Academy

SUBMITTED 20.9.1956

AVAILABIE

Library of Congress

Card 2/2

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507/63-4-3-30/31

AUTHORS: Koptyug, V.A., Gerasimova, T.N. Vorozhtsov jr., N.N.

TITLE: Migration of Alkylsulfonyl Residue in Alkyl-(1-Chloronaphthyl-8)-Sul-

fones

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 3,

pp 414-415 (USSR)

ABSTRACT: The study of the reactions of peri-substituted naphthalenes has de-

monstrated that heating of methyl-(1-chloronaphthyl-8)-sulfones with concentrated hydrochloric acid for 5 hours at 200°C causes the irreversible migration of the sulfonyl residue. It has been shown that the migration of the alkylsulfonyl residue is characteristic only for 1,8-isomers and seemingly connected with the spatial interaction of peri-substitutes leading to the migration of these substitutes from

the plane of the naphthalene nucleus.

Card 1/2 There are 4 non-Soviet references.

SOV/63-4-3-30/31

Migration of Alkylsulfonyl Residue in Alkyl-(1-Chloronaphthyl-8)-Sulfones

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva

(Moscow Chemical-Technological Institute imeni D.I. Mendeleyev)

SUBMITTED: February 2, 1959

Card 2/2

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5.3600

SOV/13-4-6-30/37

AUTHORS:

Koptyug, V. A., Gernslmova, T. N., Verenhtsev, N. N.,

TITLE:

Brief Communication. Isomeric Conversion of

Mathyl-(1-Chloromaphthyl-8)-Sulform

PERIODICAL: Khimicheskaya nauka ! promysillenmost', 1950, Vol 4,

Nr 6, pp 807-808 (USSR)

ABSTRACT:

In the previous work (the same authors, Khim, nauka 1 prom., 4, Nr 3, 414, 1959), it was shown that alkyl(1-chloronaphthyl-8) sulfone, by heating with cone. HCl, at 200-2300 is isomerfied into alkyl(1-chloronaphthyl-7)

sulfone (III) as follows:

Card 1/4

CIA-RDP86-00513R000514820008-3" **APPROVED FOR RELEASE: 09/24/2001**

Brief Communication. Isomorfe Conversion of Mathyl-(1-Chloronaphthyl-8)-Salfone

I was heated with 2 g/mole of AlCl, for 1 in at 1250, in the presence of dry MC1, and methyl(3-chloronaphthyl-8) sulfone (IV) was obtained (in 50% yield) instead of III. In the above case the algorithm of chloring atom occuped, instead of methyl-sulfonyl medical migration.

Card 2/4

Brief Communication. Isomeric Conversion of Methyl-(1-Chioronaphthyl-8)-Sulfone

Card 3/4

Brief Communication. Isomeric Conversion of Methyl-(1-Chloronapthyl-8)-Sulfone

77296 80V/63-4-6-30/37

In the present work, the conversion of I in the presence of FeCl₃ was studied. Heating I with FeCl₃ (ratio: 1 to 0.5 g/mole), at 150° for 6 hr, in a stream of HCl forms III. The migration of chlorine atom was practically not observed. In the absence of catalyst, at 230-250°, and in a stream of HCl, the isomerization was not observed. There are 2 Soviet references.

ASSOCIATION:

Mendeleyev Moscow Chemical-Technological Institute (Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva)

SUBMITTED:

May 10, 1959

Card 4/4

GERASIMOVA, T.H., red.; CHERNIKHOVA, M.Z., tekhn. red.

[Machine milking. Translated from the Swedish] Mekhanizatsiia doeniia. Moskva, TSentr. biuro tekhn. informatsii, 1960. 46 p. (MIRA 14:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po avtomatizatsii i mashinostroeniiu. (Milking machines)

5,3620

307/79-30-2-54/78

AUTHORS:

Koptyug, V. A., Gerasimova, T. N., Vorozhtsov, Jr., N. N.

TITLE:

Steric Hindrance and the Reactivity of Organic Compounds.

I. Migration of the Alkylsulfonyl Radical in Alkyl

1-Chloronaphthyl -8 Sulfones

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 612-618

(USSR)

ABSTRACT:

Isomeric transformation of 1,8-dihalonaphthalenes proceeds easily even without catalysts; this is explained by the steric interaction of the halogen atoms in periposition. Van der Waals! radius of Cl is 1.80 A, that of Br 1.95 A, whereas the distance between C_1 and C_8 in the naphthalene

molecule is only about 2.5 A. The molecule is subjected, therefore, to a deformation, and to a deviation of the halogen atoms from the plane of the napthalene molecule, followed by a change in the values of the bond angles at \mathbf{C}_1 and \mathbf{C}_8 . The hybridization of the valence electrons of

Card 1/7

similar atoms cannot correspond any longer to the pure

Steric Hindrance and the Reactivity of Organic Compounds. I

77903 **SOV**/79-30-2-54/78

(sp²)p type of a plane trigonal system and approaches to some extent the tetrahedral (sp³)-hybridization. This must facilitate the formation of an activated complex in the attack of these atoms by the electrophilic particle. The increased affinity of C_1 and C_8 atoms of the 1,8-disubstituted naphthalenes towards the electrophilic particles creates, in particular, favorable conditions for the protonation of these atoms and for the formation of σ -complexes. The authors assume, accordingly, that three types of transformations can take place in such cases, as shown in the formulas (1):

Card 2/7

FORMULA 1 ON FOLLOWING CARD (3/7)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514820008-3"

Steric Mindrance and the Reactivity of Organic Compounds. I

17903 3077 (9-50-1-5778)

The following transformations can serve as examples of the above reactions: 1,8-dibrome-2.7-dihydroxynaphthalene into 1,6-dibrome-2,7-dihydroxynaphthalene, reaction A: 1.0-dichloronaphthalene into the 1,6-isomer, reaction 3 (X=Y=Z=C1); 1,8-dichloronaphthalene-3-sulfonic soil 1.7-dichloronaphthalene, reaction B. The present traff deals with the migration of the radical in similarity perisubstituted alkyl 1-chloronaphthayl-8 calfones [1]:

$$\begin{array}{c|c} SO_2R & Cl & SO_2R & Cl \\ \hline & H_1Pd & & \\ \hline & (III) & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

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Steric Hindrance and the Reactivity of Organic Compounds. I

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Such sulfones were obtained on boiling for 3-5 hr a mixture of methanol solutions of sodium ethoxide and chloronaphthalenesulfinic acid with methyl iodide, ethyl iodide, or benzyl chloride. The sulfone precipitate was filtered, washed with 5% soda solution and water, and recrystallized from methanol. The following new sulfones were obtained: methyl 1-chloronaphthyl-5 sulfone (mp 141.0-141.5° C); methyl 1-chloronaphthyl-7 sulfone (IVa) (mp 160.5-161.0° C); methyl 1-chloronaphthyl-8 sulfone (Ia) (mp 126.5-127.0° C); methyl 2-chloronaphthyl-8 sulfone (mp 117.5-118.0° C); ethyl 1-chloronaphthyl-8 sulfone (IVb) (mp 122.0-122.5° C); ethyl 1-chloronaphthyl-8 sulfone (Ib) (mp 143.0-143.5° C); and benzyl 1-chloronaphthyl-8 sulfone (mp 170.5-171.0° C). Yield of the methyl chloronaphthyl sulfones was 72-88%; that of ethyl chloronaphthyl sulfones was 72-88%; that of ethyl chloronaphthyl sulfones was 72-88%; that of ethyl chloronaphthyl sulfones decay. Heating Ia and Ib with concentrated HC1 at 200° C and 220-230° C, respectively, caused an irreversible migration of the alkylsulfonyl radical into 3-position and the formation of sulfones IVa and IVb in 40% and 60% yield, respectively. This migration was

Card 5/7

Steric Hindrance and the Reactivity of Organic Compounds. I

77903 SOV/79-30-2-54/78

due to the steric interaction of the Cl atom and the sulfonyl radical which caused a deviation of these substituents from the plane of the naphthalene ring. other sulfones did not change on heating with concentrated HCl; it follows that the migration of the sulfonyl radical is characteristic solely of the 1,8-isomers. Elimination of the chlorine atom was achieved by hydrogenation of the alkyl chloronaphthyl sulfones in methanolic alkali solution over Pd. In this reaction, methyl 1-chloronaphthyl-5 sulfone, methyl 1-chloronaphthyl-8 sulfone, and methyl 2-chloronaphthyl-8 sulfone gave, respectively, methyl naphthyl-1 sulfone (mp 101.5-102.0° C from methanol), and methyl 1-chloronaphthyl-7 sulfone gave methyl naphthyl-2 sulfone (mp 141-141.5°C). Similarly, ethyl 1-chloronaphthyl-8 sulfone gave ethyl naphthyl-1 sulfone (mp 88-89°C), and ethyl 1-chloronaphthyl-7 sulfone gave ethyl naphthyl-2 sulfone (mp 42-44.5°C). Yield of the dechlorinated sulfones was 83.5-97%. There are 1 table; and 31 references, 7 U.S., 6 U.K., 1 Canadian, 2 French, 1 Swedish, 1 Danish, 7 German, and 6 Soviet. The 5 most recent U.S. and U.R. references are: K. B. Everard, L. E. Sutton, J. Chem. Soc., 1949, 2312; D. M. Donaldson, J. M. Robertson, ibid., 1953,

Card 6/7

Steric Hindrance and the Reactivity of Organic Compounds. I

77903 \$6V/79-30-2-54/78

17; E. Harnik, F. H. Herbstein, G. M. J. Schmidt, ibid., 1954, 3288; same authors, ibid., 1954, 3303; L. Bateman, F. W. Shipley, ibid., 1958, 2888.

ASSOCIATION:

D. I. Mendeleyev Moscow Chemical-Technological Institute (Moakovskiy khimiko-tekhnologicheskiy institut imeni

D. I. Mendeleyeva)

SUBMITTED:

February 24, 1959

Card 7/7

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514820008-3"

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VOROZHTSOV, N.W., mladshiy; GERASIMOVA, T.N.; KARPOVA, Ye.M.; LISENKOVA, G.S.

Preparation of 5-nitro-1,4-naphthoquinone and its condensation with dienes. Zhur. VKHO 5 no.4:474-475 160. (MIRA 13:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.
(Naphthoquinone) (Olefins)

KOPTANON V.A.; GERASIMOVA, T.N.; PLAKHOV, V.A.

Iscmeric transformations of sulfones of the napthtalene series in the presence of metal halides. Zhur.ob.khim. 31 no.5:1611-1621

FEITH MET AND SERVE FOR MESTIN THE MESTIN FOR DETAILS FOR PROFILE FOR THE PROFILE FOR THE FOR

My 161. (MIRA 14)5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. (Sulfone) (Isomerization)

KOPTYUG, V.A.; GERASIMOVA, T.N.; VOROZHTSOV, N.N., mladshiy

Steric hindrances and reactivity of organic compounds. Part 11: \$\beta\$ -Naphthalenesulfonic acid as a catalyst of isomerization of compounds with steric hindrances. Zhur.ob.khim. 31 no.10:3341-3343 0 '61. (MIRA 14:10)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR. (Naphthalenesulfonic acid) (Isomerization)

ran kununga hacabulah sinirilmarnan librahasa kambalasah satra sarkasar rasinsa fir

Isomerisation of sulfones of the benzene series. Zhur.ob.khim.
32 no.11:3780-3796 N '62. (MIRA 15:11)

1. Navosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Sulfones) (Isomerization)

GERASIMUVA, T. N.

Dissertation defended for the degree of Candidate of Chemical Sciences at the Joint Academic Council on Chemical Sciences; Siberian Branch

"Isomeric Transformations of Aromatic Type Sulfones."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

GERASIMOVA, T.N.; KOPTYUG, V.A.

Isomeric transformations of methyl (chloronaphthyl) sulfones.
Zhur.ob,khim. 33 no.2z601-606 F '63. (MIRA 16:2)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Sulfone) (Isomerization)

GERASIMOVA, T.N.; BUSHMELEV, V.A.; KOPTYUG, V.A.

Rearrangement of N-aryl and N-akylsufonyl derivatives of primary aromatic amines to aminosulfones. Zhur. org. khim. 1 no.9:1667-1673 S 165. (MIRA 18:12)

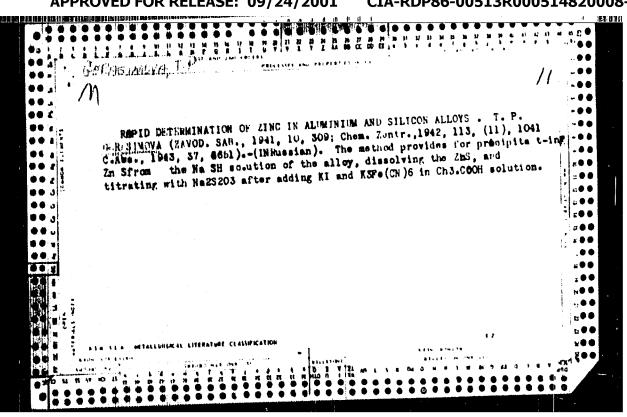
1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted October 20, 1964.

IAPTEV, S.A., kand. tekhn. nauk; GERASIMOVA, T.N., red.; CHERNIKHOVA, M.Z., tekhn. red.

[The 1960 automotive exhibit in Geneva] Avtomobilinaia vystavka
1960 goda v Zeneva. Moskva, TSentr. biuro tekhn. informatsii,
1960. 31 p.

(Automobiles—Exhibitions) (Geneva—Exhibitions)

CIA-RDP86-00513R000514820008-3 "APPROVED FOR RELEASE: 09/24/2001



GERASIMOVA, T.P.: POLOVINKIN, A.A., doktor geograficheskikh nauk, professor, redaktor; YELAGIN, V.D., redaktor; GARNEK, V.P., tekhnicheskiy redaktor.

[Weather observations in teaching of geography in the seven-year school] Nabliudenie nad pogodoi v prepadovanii geografii v semiletnei shkole. Pod red. A.A. Polovinkina, Hoskva, Izd-vo Akad.pedagog. nauk RSFSR, 1951. 103 p. (MLRA 8:8)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Polovinkin)
(Meteorology--Observations)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514820008-3"

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GERASI	MOVA, T. P.
·	Speech training in Geography classes of 5th, 6th and 7th grade students. Geog. v shkole No 3, 1952.

GERASIMOVA, T. P.

"Weather observations in geography teaching in the seven-year school."

T. P. Gerasimova. Reviewed by M. I. Shcherban'. Geog. v shkole, No 4, 1952.

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GERASIMOVA, T.P.; SMIRNOVA, N.P., redaktor; RYBIN, I.V., tekhnicheskiy redaktor.

[Weather observation in the teaching of geography in the sevenyear school] Nabliudeniia nad pogodoi v prepodavanii geografii v semiletnei shkole. Izd. 2. Moskva, Gos. uchebno-pedagog. izdvo Ministerstva prosveshcheniia RSFSR, 1954. 92 p. (MLRA 7:8) (Weather) (Physical geography--Study and teaching)

որության է անաստանի է ուսել է անաստանական արկանական արանական անական անական արևան արդեն անաստանական

ZASLAVSKIY, Iosif Ivanovich; GERASIMOVA, Tam'yana Pavlovna; RODIONOVA, F.A., redaktor; MAKHOVA, N.N., tekningenskiy redektor

[Physical geography; a beginner's course. Textbook for class 5 of the seven-years and secondary schools] Fizicheskaia geografiia; nachal'nyi kurs. Uchebnik dlia V klassa semiletnei i srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo Kinisterstva prosveshcheniia RSFSR, 1955. 160 p. 3 maps (insert). (NLRA 8:7) (Physical geography)

GERASIKOVA, Tat'yana Pavlovna; ZASLAVSKIY, I.I., red.; GALKIN, P.D., red.; TARASOVA, V.V., tekhn. red.

[Methods of teaching an elementary course in physical geography in the fifth grade] Metodika prepodavaniia nachal nogo kursa fizicheskoi geografii v V klasse. Moskva, Izd-vo Akad. pedagog. nauk
RSFSR, 1958. 335 p. (MIRA 11:7)
(Physical geography—Study and teaching)

ZASLAVSKIT, Iosif Ivanovich; GERASIMOVA, Tat'yana Pavlovna; RODIONOVA,
F.A., red.; ANDREYSVA, K.A., red.kart; MAKHOVA, N.N., tekhm.red.

[Physical geography (beginner's course) textbook for the fifth grade of a seven-year school and secondary school] Fisioheakaia geografiia (nachal'nyi kurs); uchebnik dlia V klessa semiletnei i srednei shkoly. Izd.6. Moskva, Gos.uchebno-pedagog.izd-vo
M-va prosv.RSFSR, 1960. 160 p. (MIRA 13:5)

(Physical geography)

BARSKAYA, Kh.I.; GERASIMOVA, T.F.; MATRUSOV, I.S.; HAZAROCHKINA, V.A.;
SHCHENEV, V.A.

Discussing special methods of teaching geography. Geog. v shkole
25 no.2:86-87 Mr-Ap '62.
(Geography--Study and teaching)

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BIBIK, A.Ye., nauchnyy sotr.; GERASIMOVA, T.P., nauchnyy sotr.; SAMOYLOV, I.I., nauchnyy sotr.; PADEZHNOV, A.I., red.; NOVOSELOVA, V.V., tekhn. red.

[Teaching economic geography in secondary schools]0 prepodavanii ekonomicheskoi geografii v srednei shkole. Pod red.I.I.Samoilova. Moskva, Izd-vo APN RSFSR, 1962. 86 p. (MIRA 16:1)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut obshchego i politekhnicheskogo obrazovaniya.

(Geography, Economic—Study and teaching)

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CCESSION NR: AT3008538	s/2984/63/000/000/0023/0027
UTHORS: Belyayev, Yn. A.; Gerasimova, umin, V. S.; Shkutova, N. A.; Shumakher	T. S.; Dravskikh, Z. V.; Hikhel'son, N. N.;
TILE: Control system for the RM-700 te	elescope
OURCE: Novaya tekhnika v astronomii; s riborostroyen. pri Astronom. sovete AN zd-vo AN SSSR, 1963, 23-27	materialy* soveshch. Komissii SSSR, Moskva, 18-20 apr. 1961 g. Moscow,
OPIC TAGS: control system, automatic digital control machine	control, RM 700 telescope, telescope, ETSUM
he Pulkovskaya observatoriya (Pulkovo Couble control system. One aspect is a ne of two panels operating by semiautor cope will be computed on this panel, eacleyn connection operating as an indicate	stor. The hour mechanism will be a synchro-

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automatic control by means of a digital electronic control device (ETSUM). device has been described by Yu. A. Belyayev (1961, Izv. GAO AN SSSR, 169). operates with a binary code of sidereal time, computed in angular scale from panel. This involves the use of a quartz-crystal clock running on sidereal frequency divider and power amplifier, a frequency converter, and a cumulate adder. The operation of the parts is described in considerable detail. "Batanov (deceased), Yu. N. Gell, and A. V. Korolev participated in this working, art. has: 7 figures.	It the time, a ive
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USSR/ Analytical Chemistry - Analysis of Inorganic Substances

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Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12037

Author : Kolobova K.K., Gerasimova V.A.

Title : Colorimetric Method for the Determination of Sodium

in Soda-Lime Glass without Taking a Weighed Sample

Orig Pub : Zavod. laboratofiya, 1956, 22, No 7, 794-795

Abstract : On the cleansed surface of a standard and of the glass

sample being tested, within a specially provided paraffinenclosed area, are placed 2 drops of ${\rm H_2F_2}$ and allowed to remain there for 5 minutes while being stirred with a paraffin-coated glass rod. After 5 minutes into each of the paraffin enclosed areas are added 2 drops of water and the resulting solutions are transferred, by means of glass capillaries, into Pt crucibles. The paraffin enclosed areas are rinced 4-5 times with water, which is applied 1 drop at a time, and the washings are added to the previously

obtained solutions. After this there is added to each

Card 1/3

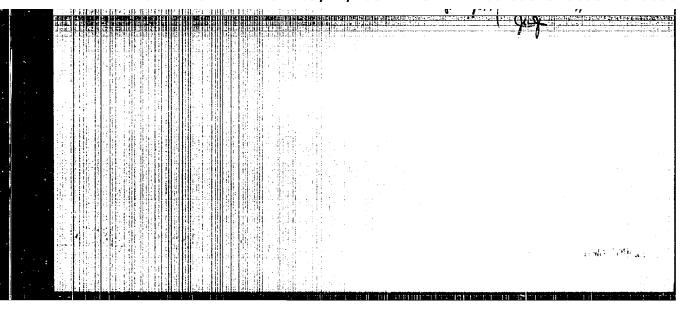
USSR/ Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12037

solution i drop of H₂SO₁ 1:3, the mixture is evaporated until evolution of white funes ceases, 8-10 drops of water and 1 drop of H₂SO₁ 1:3, are added and the mixture is boiled to clarify the liquid. The completely transparent solutions are transferred into 50 ml beakers and are again evaporated almost to dryness. The residues are dissolved in a least possible amount of water, 5-6 ml C₂H₂OH and 5-6 ml of UO₂(C₂H₂O₃) solution are added to each, the mixture is thoroughly stirred, allowed to stand for one hour and thereafter the precipitate is filtered through a "Blue Band" filter, washed by decartation 2-3 times with alcohol, then several times with a 2.5:1, ether-alcohol mixture, until a reaction for U is no longer obtained. Washed precipitates together with filtrates and funnels are placed in a drying oven at 60-70° for 10-15 minutes, are then transferred into small beakers, dissolved in hot 2% CH₂COOH, filtered through "White Band" filters and collected in

Card 2/3



AUTHORS: Volosevich, V. 11. 1, Gerasimova, V. D., Lyutsareva, L. A.

TITLE:

Ceramic Pyroscopes for Temperature Measurement in a Regenerating Medium (Keramicheskiye piroskopy dlya izmereniya temperatur v vosstanovitel'noy srede)

PERIODICAL:

Ogneupory, 1958, Nr 1, pp. 23 - 28 (USSR)

ABSTRACT:

A. V. Tereshchenko and I. Ye. Dudavskiy point out that the temperature of the fall of pyroscope depends on a number of factors, such as: dispersion, chemical and mineral composition of the pyroscopes, their shape, dimensions and their manner of installation, as well as the speed of the temperature increase. Various admixtures in the composition of the pyroscope may change the temperature of their fall in both directions, in dependence on the composition of medium in the furnace. According to the data by Vickers the influence of the admixtures Fe₂O₂ in different gas mediums is characterized by figures which are recorded in table 1. The pyroscope produced both in this country and abroad consist of clay, kadin, quartz, feldspar, marble and so on with admixtures. Such pyroscopes are used in furnaces with oxidizing of neutral medium. Furnaces with regenerating medium were recently widely spread. They possess a hydrogen-ammonia medium and others and are used for annealing

Card 1/3

131-1-6/14

Ceramic Pyroscopes for Temperature Measurement in a Regenerating Medium

and soldering various metals for sintering hard-metal alloys, for burning highly aluminiferous ceramics of pure oxides which require a high temperature and a regenerating medium respectively for burning. In order to be able exactly to measure the temperature in electric furnaces with regenerating medium in the range of from 1500 to 1800°C, tests were performed with various existing devices and pyroscopes. After these tests had yielded a negative result (as may be seen from table 2 and figure 1) pyroscopes of aluminum oxide (alumina) with an admixture of fluxing agents were produced which are destined for use in a regenerating medium (TRB). For the purpose of determining the composition of these pyroscopes, tests with synthetic fluxing agents were performed, as is to be seen from table 3. As aluminum oxide the authors used an argillaceous earth of the brand. To burnt at 1640°C in a regenerating medium; its chemical composition is given in table 4. The pyroscope with 30 % admixture of fluxing agents showed fall temperatures which are recorded in table 5. Pyroscopes with admixture of 5 to 50 % of theffluxing agent H 3 behaved as may be seen from table 6. The pyroscopes were installed on corundum bases according to GOST 4069-48. The comparison of the operation of these pyroscopes in a nitrogen-hydrogen medium and in krypton furnace ichhown in

Card 2/3

131-1-6/14

Ceramic Pyroscopes for Temperature Heasurement in a Regenerating Medium

table 7. Figure 2 shows a photograph of the pyroscopes TKN 163, 167 and 169, and of the new pyroscope TKB - 149 which are placed in the electric furnace with nitrogen-hydrogen medium at 1480°C. There are 2 figures, 7 tables, and 5 references, 4 of which are Slavic, and 1 English.

ASSOCIATION: Experimental Plant imeni Dzerzhinskiy (Upjung, zavod im. Dzerzhinskogo)

AVAILABLE:

Library of Congress

1. Pyroscopes-Application

Card 3/3

LUKOSSKIY, G.I., kand.med.nauk; GERASIMOVA, V.D.

Prolonged local anesthesia in bronchoscopy and bronchography.

Vest. otorin. 23 no.2:77-80 F '61. (MIRA 14:4)

l. Is fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.S.

Zhorov) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova.

(HRONCHOSCOPY) (HRONCHI)

ROZENSHTRAUKH, L.S. (Moskva, Volokolamskoye shosse, d.14-b, kv.84); INKOPSKIY, G.I.; CERASIMOVA, V.D.; SAHPITER, I.A.

Use of adhaegon for anesthesia of the tracheobronchial tree. Grud. khir. 2 no.3:82-84 My-Je '60. (MIRA 15:3)

1. In kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) TSentralinogo instituta usovershenstovaniya vrachey i kafedry fakulitetskoy
khirurgii (zav. - prof. I.S. Zhorov) i I Moskovskogo ordena Lenina
meditsinskogo instituta na baze 61-y klinicheskoy bolinitsy (glavnyy
vrach - kand.med.nauk L.N. Vasil vskaya).

(AMMSTETS :A, INTENTE CHEAL)
(BROKCHA-SURCERY)

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BOURCE: B	ulleten	isobreteniy i tovarnykh snakov, no. 19, 1965, 16	
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		phosphide, inorganic synthesis	
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Some features of physiological processes in the cotton plant. Dokl.AN Uz.SSR no.3:50-52 159. (MIRA 12:7)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. Predstavleno akademikom AN UzSSR S.S.Kanashom.
(Cotton)

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Biochemical feature of the ripening of seeds from cotton varieties which mature at different times. Dokl. AN Uz.SSR no.10:47-50 '59 (MIRA 13:3)

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GERASIHOVA, V.P.

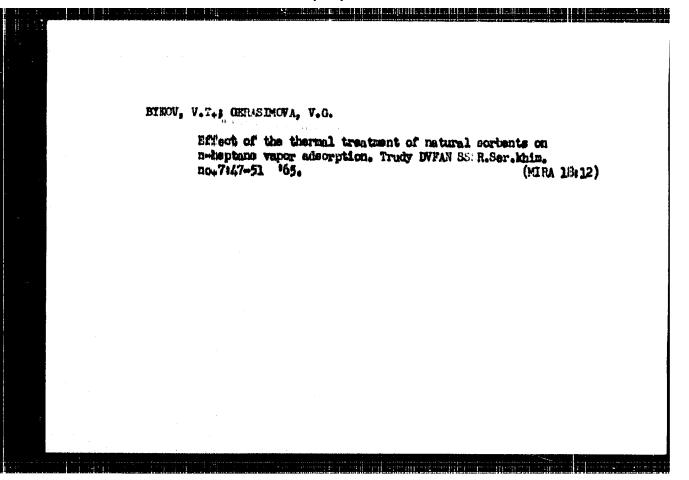
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